

Bulletin

No. 21 33rd year

University of Toronto

Monday, June 9, 1980

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Three U of T professors receive Guggenheim Fellowships

Three U of T professors are among 276 scholars, scientists, and artists awarded Guggenheim Fellowships for 1980. They are: Professor Robbie Case, Ontario Institute for Studies in Education, who is working on a book on "a new theory of intellectual development"; Professor Sara J. Shettleworth, Department of Psychology, for her work on "animal learning in the wild"; and Professor Josef Skvorecký, Erindale College, for a novel on Dvořák. The fellowships were awarded on the basis of "demonstrated accomplishment in the past and strong promise for the future". A total of 10 of the 276 award recipients were Canadians.

Furedy participates in Hungary exchange

Professor John Furedy of the Department of Psychology will visit Hungary this summer for six weeks as one of the first recipients of a new agreement between the Social Sciences and Humanities Research Council of Canada and the Academy of Sciences of Hungary. The agreement is for the exchange of scholars between Canada and Hungary, and Professor Furedy will conduct seminars and informal lectures at the Institute of Physiology, University Medical School, Pecs, and will also attend the International Congress of Physiological Sciences in Budapest July 13 to 19.

While in Europe, Prof. Furedy will participate in the Congress on Improving University Education in Switzerland from July 9 to 12.

UTFA chooses 1980-81 executive slate

At its meeting May 21, the U of T Faculty Association Council approved the following slate for its 1980-81 executive committee: President, M.G. Finlayson, History, University College; Vice-President, Grievances, N.K. Choudhry, Political Economy; Secretary/Treasurer, M.E. Avison, Audio-Visual Library; Chairman, University & External Affairs, J.A. Fleming, French; Council Members, M.W. Donnelly, Division of Social Sciences, Scarborough College; Albert Rose, Social Work; and A.S. Sedra, Electrical Engineering; and Special Observer, Joaneath Spicer, Fine Art.

Restaurant, lounge proposed for south side of Sid Smith

Design includes landscaped terrace for outdoor dining

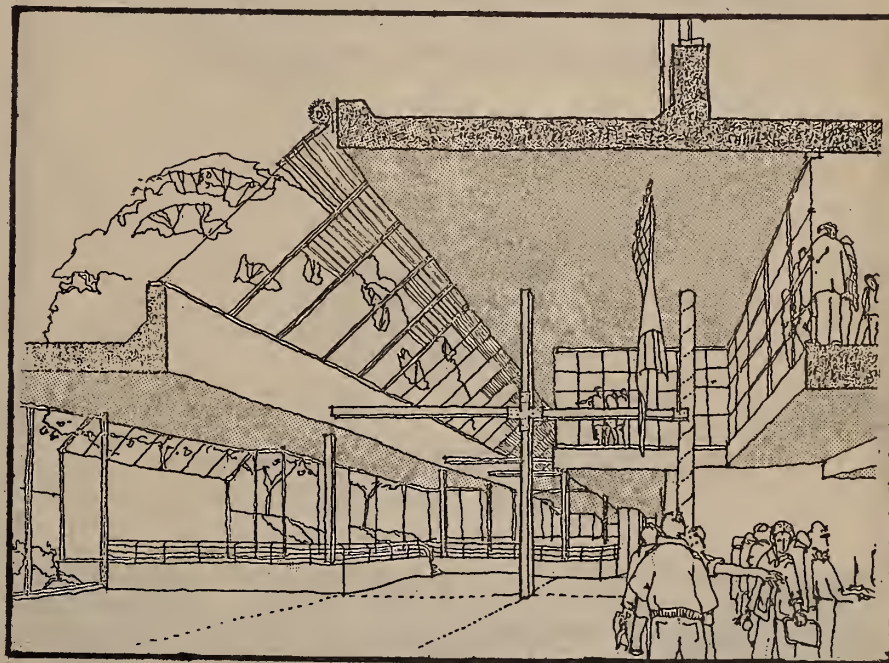
Construction of a student centre on the south side of Sidney Smith Hall could begin this fall.

The \$500,000 project, if approved, will include a 100-seat restaurant for hot and cold meals and a lounge that could serve as a meeting place for groups of up to 350. Both ground floor areas will be designed to meet liquor licensing regulations.

The proposal has been accepted by senior University administrators and student representatives. The Business Affairs Committee has approved spending \$50,000 on detailed engineering and architectural plans, providing the project is accepted in principle by the Planning & Resources Committee, which meets today, and Governing Council, at its June 19 meeting. Construction of the centre would take approximately 18 months.

The plan calls for an active or transitional lounge, a quiet lounge, a kitchen and a dining area on the ground level, as well as a small tuck shop on the floor above. At peak periods, the transitional lounge would be used to seat about 200 additional diners. This area could also be sub-divided into units to accommodate 75 or 125 people attending meetings or special events. Both the dining and lounge areas would stay open in the evenings.

The design proposal also includes landscaped terraces on the east and west sides of the facility that could be used for outdoor dining. The west terrace would probably be designed to conform to liquor licensing regulations. All areas would be accessible to people in wheelchairs.



Plans for the \$500,000 student centre on the south side of Sidney Smith Hall include a 100-seat restaurant and a lounge that could accommodate up to 350 people. The proposal also includes landscaped terraces on the east and west sides of the facility that could be used for outdoor dining.

A related proposal calls for the landscaping of the sections of Huron St. and Willcocks St. around Sidney Smith Hall.

The restaurant and lounge would replace existing services on the fifth floor of the building, which would become academic space.

The ground floor development is viewed as a means of providing a focal point for the south-west campus community, which has a shortage of meeting and eating areas available to it. In a memo to Governing Council standing committees in support of the proposal, Vice-President (Research and Planning) and Registrar H.C. Eastman noted that "enrolment would have to decline by about 40 percent before current levels of

Continued on Page 2

U of T balks at OCUA suggestion of enrolment quotas

Some Ontario universities, concerned that U of T will increase its enrolment at their expense, have suggested that the Ontario Council on University Affairs (OCUA) consider a quota system to protect them.

"The giant has a tremendous responsibility for the system's stability," OCUA chairman William Winegard told U of T representatives at their May 24 meeting, the last stop on the government advisory body's round of talks with the province's universities. He said the smaller institutions wanted "the money to be spread around so that everyone is equally in trouble".

U of T representatives at the meeting countered that the quota proposal was based on the unjustified assumption that the University would increase overall enrolment to the detriment of the system and that the introduction of quotas would not represent a solution to inadequate provincial funding.

President James Ham said enrolment

here has remained relatively constant over the levels of five or six years ago, while the provincial university system has grown.

"The concern is unfounded," he said, adding that the government funding structure has built-in mechanisms to compensate smaller institutions with enrolment difficulties.

He said there were limitations on introducing radical changes in enrolment that would alter the "intellectual map" of the University, though adjustments may be made within the institution to meet total enrolment expectations.

Dean Gordon Slemon of the Faculty of Applied Science & Engineering told advisory council members that enrolment in engineering has remained level at the two main institutions in the province: "The imposition of a quota would not change anything, unless you fill the quota in the smaller institutions and then let the large institutions take up the slack."

Discussion also centred on introducing role differentiation among universities and setting up a special projects and research fund out of operating grants, both of which were criticized by U of T officials as being uncertain methods of improving the system's financial prospects.

Loss of staff, overcrowded classrooms, and deterioration of equipment and buildings were offered as evidence of the urgent need for financial remedies at the University.

School of Graduate Studies dean John Leyerle urged the council not to lose sight of quality of education during their financial deliberations.

He cited the Robarts Library as an example of a provincial asset that must be funded by the University. Not buying library books because of inadequate funds will have far-reaching consequences on the quality of the entire system both now and in the future, he said.

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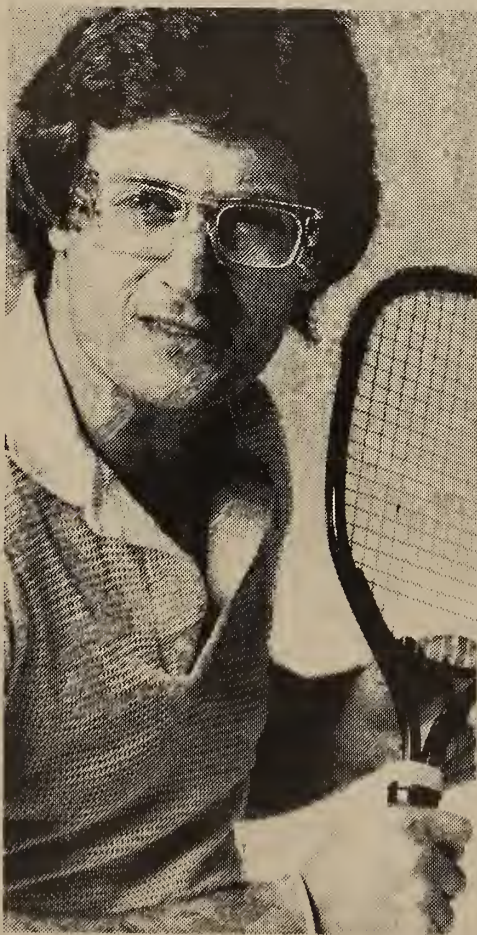
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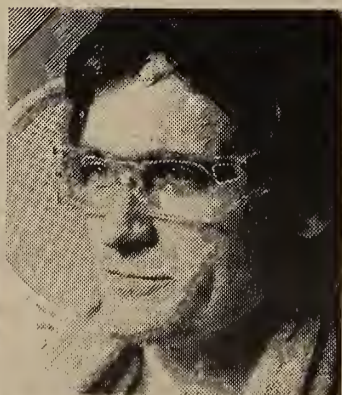
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Sid Smith proposal
Continued from Page 1

lounge space could be considered as being adequate".

The current proposal was developed following a recommendation last fall from the South-West Campus Users' Committee calling for the long-considered "campus as a campus centre" proposal to be modified to allow development of additional lounge space and a convenience food service on the west side of the first floor of Sidney Smith Hall. In reaction, undergraduate student bodies suggested the lounge and food service should be located on the south side of the building. The following month, the users' committee's subcommittee on student and administrative services asked the

University to conduct full feasibility studies of both the recommendation and the alternatives proposed.

The subsequent study showed that the south side ground level location would be preferable because, among other considerations, it would allow the facility to develop an identity separate from Sidney Smith Hall, it would provide easier access, and cause less disruption during and after construction.

About \$300,000 has been earmarked for the project from Update funds, with the remaining \$200,000 expected from unrestricted funds.

**Hume to succeed Davies
as master of Massey College**



The Corporation of Massey College has declared its intention to elect Professor James Nairn Patterson Hume to succeed Professor Robertson Davies as master of Massey College. Professor Davies, who was appointed first master of Massey College on Feb. 24, 1961, will retire on June 30, 1981.

Professor Hume is chairman of the Department of Computer Science and is recognized as a leading international authority on computers and their application. He is a graduate of U of T (BA 1945, MA 1946, PhD 1949) and before joining the Department of Computer Science in 1963 was a professor of physics at the University. In the 50s and 60s he and Professor D.G. Ivey of the physics department gained world recognition for a series of television programs and films on physics that they devised and presented. The films are still being used and have continued to win awards. He has published widely in his field, and has made numerous contributions in the use of computers in science, business and industry. In particular he pioneered the development of high-level computer programming languages. His present research activities are mainly in the area of the analysis of complex computer systems.

Professor Hume has wide interests. In

the Arts and Letters Club, of which he was president 1976-78, he has been director, writer and actor in the annual spring revue, and is a talented amateur painter. He became a senior fellow of Massey College in 1973 and has been an active and influential member of the college. He is married to the former Patricia Anne Molyneux and has four children, of whom the eldest, Stephen, was a junior fellow of Massey College during the years 1977-78.

The Corporation of Massey College has 25 members, drawn largely from senior faculty members of the University, including the President and the dean of the graduate school. The college was built and furnished by the Massey Foundation. It is primarily a residential graduate college for men and women in all the disciplines. The Honourable Vincent Massey, who was instrumental in its founding, envisaged a college that would exert its educative force through the facilities it provides for individual study, and the associations it offers through communal living; and this remains the animating idea of the college. But the college also provides facilities for university instruction in graduate work, and has become an important academic centre that attracts visiting scholars and fosters seminars and lectures.

The Uncoupling Process

A sociologist's study has analyzed the approaches and pitfalls of marital separation counselling

by Pamela Cornell

When adultery, insanity, or prolonged imprisonment were the only grounds for divorce in Ontario, many a couple stayed together despite strong inclinations to part. Then came the 1968 liberalization of divorce laws, acknowledging marital breakdown and separation as sufficient reason for severing the ties.

The divorce rate soared, and the Family Service Association (FSA) of Metropolitan Toronto found itself responding to an increasing demand for separation counselling.

Before long, though, agency counsellors were feeling frustrated. While their experience with separation counselling was growing, their insights were not. Caught up in the immediacy of each session, they lacked an overview — a general sense of productive approaches and potential pitfalls.

Couples in the process of parting were being emotionally bruised. Often they'd already talked to lawyers and an adversary situation had developed, making counselling all the more arduous. The FSA wanted to find some way of reducing the anguish.

Seeking a more sophisticated understanding of its own work, the agency called in sociology professor Norman Bell to design a formal research project documenting and analyzing current counselling practices. The three-year study examined 66 cases and resulted in a 400-page report titled *Marital Separation Counselling and the Uncoupling Process*.

"The title deliberately introduces a new term which we hope will help to change people's thinking," says project director John Stapleford, an FSA social worker and administrator.

"Separation is just one point in the long 'uncoupling' process. Confusion and frustration are bound to reign at certain stages but we want people to realize those stages don't last forever. Thinking in terms of the broader process makes it easier to view separation in context."

The study explores the various attitudes counsellors bring to their work and the influence on those attitudes of such factors as age, sex, and experience. With the clients' permission, all sessions were taped, and counsellors offered their reflections on each case to the researchers, both after every session and at the close of each case.

That research technique was a dramatic departure from traditional counselling practice.

"Many counsellors still nurture the notion that their relationship with their clients is intensely personal and, as such, should be conducted behind closed doors, insulated from observation," says Professor Bell.

"Our program has broken through that attitude and demonstrated that not only is observation essential to the researcher it can also be helpful to the practitioner."

The study reveals discrepancies, he says, between what counsellors officially endorse as their professional policies and what actually goes on behind those closed doors.

"Quite frankly, we're shocked by some of the attitudes we've found," says Stapleford. "Counsellors pay lip service to being liberal and humane; to having an open-ended attitude towards people's needs. But there's a strong tendency among them to interpret separation as failure. We're not here to glue people together. We're here to help them explore their problems and find the best possible solutions."

With all its imperfections, most clients claim counselling does help solve problems, though just how it does is not clear. Perhaps the key is having someone listen — a rare experience for many.

Traditionally a counsellor's warmth and empathy have been cited as the most important components in counselling. However the Stapleford-Bell report indicates that a wonderfully empathetic counsellor can be sadly ineffectual because of unproductive patterns that keep recurring and, once set in motion, lead a life of their own.

By charting the themes running through each session, the researchers were able to spot 10 patterns which, while distinct, often overlap.

Triggering is one of those patterns. A certain word or idea will repeatedly trigger a discussion of another topic, unrelated to the problem being examined.

That can be the first step in another pattern, called *looping*. Mention of the furniture, for instance, might evoke an association with "the other woman" and her unencumbered lifestyle, leading in turn to reminiscences of the early years of marriage, then on to how career demands had caused resentment albeit providing the much-coveted furniture, mention of which leads right back to the other woman, and so on. The same discussion in precisely the same sequence can actually occur in several sessions without even being noticed by either client or counsellor.

In a similar vein is *straight-line sequencing* whereby a couple might spend hours talking about some disagreement over the furniture without ever putting it into the context of their relationship.

Then there are *clang associations*, with talk perhaps initially centring on a disagreement over child-rearing, but

before nearing any solution, inevitably turning to a discussion of delinquency and its origins.

Non-sequiturs are another common pattern. A wife might be recounting a family crisis to the counsellor when suddenly the husband asks if anyone has heard the results of a recent by-election in Newfoundland.

Sideways drifting is a more gradual, but equally radical, detouring away from one theme to another, without any decision to do so.

Amounting to flip sides of a single coin are *flights into the abstract* and *flights into detail*. The former might begin with a client outlining frustrations with her partner and end with client and counsellor caught up in a general discussion of the meaning of life, quite apart from personal experience. Just as unfruitful is the tendency to lose sight of basic problems in a relationship by becoming embroiled in a discourse on one partner's habit of leaving hairs in the sink or squeezing the toothpaste from the middle of the tube.

Not all the unproductive patterns are initiated by the clients. Counsellors sometimes fall into the trap of seeing the problems of a relationship in terms of one partner's neurosis.

One such pattern is known as *psychologizing*. If a woman is being beaten, for example, the counsellor might focus on what in the husband's past made him such a beast. Meanwhile, the counsellor might fail to consider interaction between victim and victimizer and the part each plays.

Reduction to motivation is another

strategy that tends to shape the way issues are perceived. In an effort to interpret a marital relationship, a counsellor might ask the wife about her relationship with her father, implying that there's some significant carryover from the past. That can lead to a whole series of requests for information, without any effort being made to determine if, in fact, there is a valid connection between past and present.

"Attention has to be shifted from the individual in distress, to counselling as a small communications system," says Bell, "and the more eyes observing that system, the better."

"Peer monitoring of selected cases might help counsellors recognize non-productive patterns; not that recognition need imply intervention."

Some of those patterns could be unconscious defence mechanisms, brought into play when discussion gets too heavy or hurting to handle, says Stapleford. A breather can be useful, as long as the counsellor is continuing to help the couple deal with vital issues. But it's critical for the counsellor to be fully aware of the patterns and realize when it's appropriate to allow them and when it's not. The whole process of interaction should be subject to analytical appraisal, he says.

Most separation counsellors see themselves as facilitators — clarifying problems, recognizing needs, and enabling decisions to be made. A few play the role of teacher — offering information and advice, and presenting options.



ILLUSTRATIONS BY VERA FISCHER KAGAN

Continued on Page 4



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The Uncoupling Process

Continued from Page 3



Others view themselves as mediators — arbitrating between conflicting interests and wishes.

Few caseworkers participating in the Stapleford-Bell study found separation counselling very satisfying. They often felt frustration, hopelessness, or anger — emotions they found difficult to share with clients. Sometimes they felt drawn to the plight of one partner, yet felt obligated to avoid taking sides. Meanwhile they had to deal with the clients' guilt, anger, depression, and ambivalence, as well as help solve practical problems associated with money, living arrangements, employment, property and children.

(Clients of married counsellors report more problem solving than do those of divorced or separated counsellors, though how such an effect comes about is not clear.)

Hallmarks of separation cases seem to be communication breakdowns, intransigence, lack of emotional investment, overt problems such as conflict or abuse and mixed or shifting motivations for seeking help. So ambivalent are clients about their marriage that a caseworker sometimes isn't sure whether they're involved in marital or separation counselling, the essential difference being the goal.

Only 40 percent of the cases studied involved joint counselling with both partners, but those were the cases in which couples reported greatest problem solving and satisfaction.

"We're almost insistent now about seeing a couple together," says Stapleford. "In the past, a woman would come in alone and promise to invite her husband to the next session, but she'd warn us that he probably wouldn't come — and he wouldn't. Now we phone the husband ourselves and explain that we'll need his help if we're going to help his wife."

"Women are less defensive about using the service, perhaps because men have been subtly indoctrinated into thinking: 'You're a big boy...big and brave and stoic. You can handle this on your own'."

Pushing for joint counselling is a relatively conservative recommendation. The report goes further...suggesting that other family members might also be included in counselling sessions.

But the most startling challenge to current practice is the report's support for specialization, countering the FSA's philosophy that its social workers should be able to handle any counselling problem.

Recognition of separation counselling as a distinctive service could lead to more refined classifications of clients and clearer pinpointing of target issues, the report suggests. And sorting out the many different kinds of separation cases could result in the most appropriate counselling techniques being applied.

To introduce a shift like that would mean a major reorganization of the agency, says Bell, but that's the kind of impact basic research can have.

"This is a large, complex report," says Stapleford. "Digesting what's there and conveying the significance to our frontline staff will be a long process. With money and personnel becoming scarcer, our programs and their effectiveness must be understood if we're to set sound priorities."

The Metro FSA has 12 offices and about 55 counsellors, making it the largest family service agency in Canada.

"This research project has given us a better picture than we had, but it also raises a host of questions. In the final analysis, though, anything that fosters a probing, self-reflective attitude among practitioners, will be beneficial to the agency."

Search committee established for director of environmental and occupational health

A search committee has been established to recommend a director for the environmental and occupational health unit, for effect Sept. 1, 1980.

The membership of the committee is: Dr. F.H. Lowy, Clarke Institute of Psychiatry, chairman; Dr. J.R. Stopps, environmental and occupational health unit; Dr. Stephen Griew, behavioural science; Dr. M.J. Ashley, preventive medicine and biostatistics; Dr. Roland Hosein, preventive medicine and bio-

statistics; Dr. James Nethercott, medicine; Dr. Peter Alberti, otolaryngology; Dr. John Cowell, family and community medicine; Dr. Thomas Hamilton, environmental and occupational health unit; Prof. David Nowlan, SGS representative.

The committee welcomes suggestions and these may be submitted, preferably in writing, to the chairman or any committee member.

Treatment of the holocaust in Canadian history texts

Professor Yaacov Glickman, sociology department, is soon to begin a study entitled "The Treatment of the Holocaust in Canadian History Textbooks" for the League for Human Rights of B'nai B'rith.

The objective of the study is to ascertain the degree to which Canadian history textbooks inform and sensitize the Canadian student to the events of the Holocaust. Materials to be looked at will be taken from the curriculum of schools from all provinces.

Prof. Glickman's experience in the study of education and ethnicity will be brought to bear during the course of the research.

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Teaching surgeons how to teach

For one thing, they can pick up a trick or two from Cleopatra

by Pamela Cornell

On the operating table was an 82-year-old woman, about to undergo surgery for cancer of the bowel. Standing by — all scrubbed up and suitably gowned — was a professor of English from the Faculty of Education (FEUT).

"I didn't think I'd get through without fainting," recalls Professor Alan Coman, "but I did, and it was fascinating."

Incidentally, the scalpel was never in Coman's hand; he was just there to observe. The operation was part of a week he spent in January '79 following surgeons around to understand the duties and pressures that characterize their professional schedules.

His purpose was to help devise an approach to teaching surgeons how to teach. Not that surgeons in the Faculty of Medicine weren't already doing a lot of teaching and doing it well. But, never having had any pedagogical training, most had simply distilled the best of what their own teachers had done.

"Though surgery is a major area in medicine, very little time is allotted to the teaching of it," says Dr. Colin Bayliss, a participant in FEUT's pilot project for surgeons, held last fall.

"Surgical instruction doesn't begin until the middle of the third year — and then there would probably only be about eight lectures, each with as many as 150 students, and eight clinical sessions, with five or six students at a bedside.

"Sometimes a surgeon will only see a group of students for an hour, then never set eyes on them again, so he doesn't know what they already knew, or how successful he's been in conveying new information.

"Superb teaching is imperative. That's why, if anyone was prepared to show us how to make the most of our time and talent, we were interested."

The idea grew out of conversations between Dr. Bryce Taylor, a surgeon at Toronto General Hospital, and his father, the late Professor Bernard Taylor who had taught classics at FEUT. At Bernard Taylor's memorial service in the fall of '78, his son asked Dean John Ricker if FEUT could offer surgeons some sort of teacher training.

Ricker was keen and promptly appointed three faculty members to oversee the project. One was Alan Coman, a Shakespeare specialist with a decidedly dramatic flair. The other two were Murray Lang, whose background is in science and who specializes in audio-visual presentations; and Ralph Dent, a clinical psychologist and frequent consultant to industry.

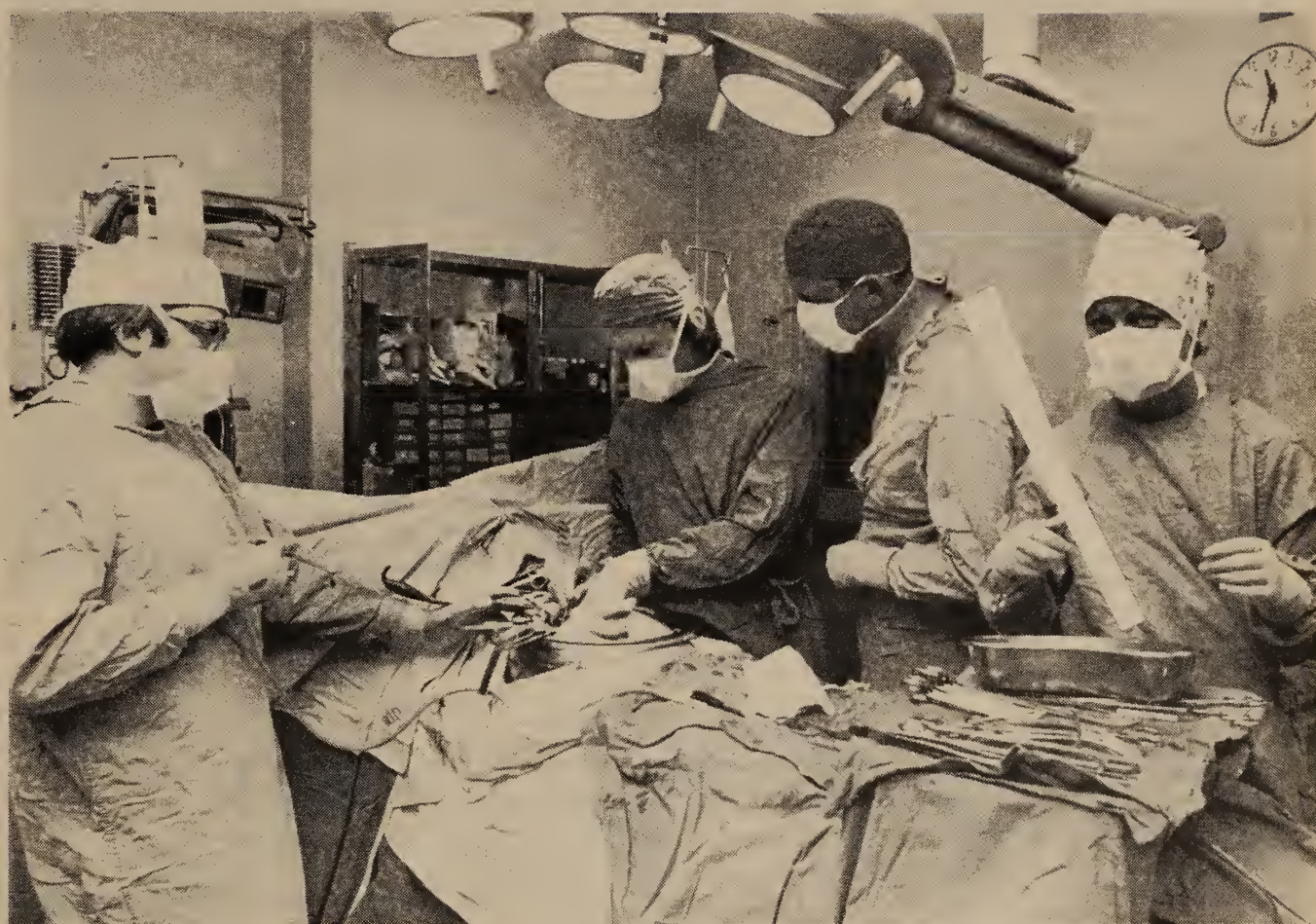
The three of them spent a total of three weeks as observers in seven of the University's 12 teaching hospitals. Then Professor Dent gave a lecture on teaching to about 65 surgeons at Women's College Hospital in March '79.

"It was a very good show with a lot of audience participation," recalls Dr. Taylor. "Even with an audience that size, Ralph made it seem as though he was speaking to each individual. It turned a couple of crotchety old profs inside out."

That paved the way for an all-day teaching seminar a few weeks later at the Academy of Medicine. Despite being held on a Saturday, it attracted 30 surgeons.

Encouraged by their success, Dr. Taylor and the three education professors planned a series of five sessions, to be held at FEUT from 6 to 9 p.m. on alternate Thursdays last October and November.

"The time was my idea and it wasn't the best," admits Taylor, who, with Coman, will be organizing the sequel. "Between fatigue and competition from other commitments, not many were able to attend all five sessions. This fall, we'll probably have an informal weekend session at a country inn."



Alan Coman (third from left), a professor of English at the Faculty of Education, looks on while Dr. Bryce Taylor, a staff surgeon at Toronto General Hospital, removes a patient's gallstones. Prof. Coman spent a week observing surgeons at work, then drew up a pedagogical training program for them. Assisting in the operating room are (left) assistant resident Dr. Jeffrey Cranford and (right) scrub nurse Edna Mulloy.

Dr. D.R. Wilson, chairman of the Department of Surgery, suggested that the pilot project's success would be easier to measure if the scheme was kept small. So he issued just 20 invitations and only to members of his department.

"It worked well, despite a certain amount of trial and error," says Dr. Alan Hudson, chief of neurosurgery at St. Michael's Hospital and a "Silver Shovel" recipient for being voted "best lecturer" by third year medical students. "There had to be something worthwhile to attract surgeons at the end of the day."

One of the highlights was Coman's lecture on lecturing — an instructional method he describes as the most used and least useful.

"Education should be an interactive process but the lecture format doesn't provide for much feedback."

To offset that weakness, he recommended beginning each lecture by randomly selecting someone to provide a three-minute synopsis of the previous lecture. If anyone can be selected, he said, everyone should be prepared. He also suggested asking questions during the lecture, but cautioned that students should all be allowed time to collect their thoughts before someone is chosen to answer.

Lecturers, he said, should strive to be like Shakespeare's Cleopatra, of whom it was said: "Age cannot wither nor custom stale her infinite variety."

Novelty is essential, he said, particularly in an era when massive stimulation is taken for granted as part of the daily proceedings. But sometimes a lecturer is up against formidable odds — a time slot at the end of the day when everyone's exhausted, a poorly ventilated room, or bad lighting.

"Lighting is particularly critical in a teaching situation. With most fluorescent lights, there are no shadows so there is no depth perception. Because the pupils don't dilate, people are like zombies. Unfortunately, you can't control that. It's an involuntary response to the impassive quality of the environment."

Strategies he recommended to combat those difficulties included varying the voice, making dramatic use of silence, using rhetorical devices, and occasionally switching to graphics.

Coman says the surgeons were an unusually receptive audience. He was amused at the way they referred to themselves as plumbers or blades, and awed by their 12-hour days, which often began at 7 a.m. Even those evening sessions were frequently punctuated by beeps from pocket pagers.

"Despite the pressures, they were an enthusiastic bunch. But they were straightforward, too. If they thought something was irrelevant to their needs, they said so."

Among those who managed to attend all five sessions was Dr. Bayliss. He's now establishing an educational development program in the Department of Pathology.

"At first we thought the educators were out to lunch. We weren't interested in hearing a lot of educational theory. We just wanted methods that worked. Surgery isn't a contemplative specialty like psychiatry. We're doers, who are

used to making quick decisions on life and death issues."

To Dr. Hudson, the most useful aspect of the course was having his teaching observed, then being given a written critique.

"Hearing from an expert in pedagogy is very important. In fact, I would go so far as to say that it should be mandatory for all surgeons on the staff of the University. Dr. Taylor agrees.

"Our main problem is that we've been talking to the committed — to people who were there because they were conscientious to begin with. Unfortunately, there are those who've never questioned themselves.

"It would be an insult to suggest that a few hours' exposure to teaching techniques would make a significant difference in our effectiveness; but that exposure can be worthwhile even if all it does is remind us of the responsibility we have to be good teachers. There's no doubt FEUT can provide the University with a good teaching development service."

\$1.6 million awarded to produce the works of Bertrand Russell

Professor John G. Slater, Department of Philosophy, is on a research team that has been awarded a Social Sciences & Humanities Research Council (SSHRC) grant of \$1.6 million over five years to produce five volumes of the works of philosopher Bertrand Russell.

The team, all specialists in Russell's work, is composed of Slater, McMaster University professors Richard A. Rempel and Andrew W. Brink, and McMaster's Russell archivist Kenneth Blackwell.

In announcing the award, SSHRC president André Fortier said that "of Russell's 2,500 shorter public writings, about 90 percent have never been collected and about 15 percent of these writings were left unpublished altogether. For a

proper intellectual assessment of this extraordinary man's contribution to diverse fields — such as mathematics, logic and philosophy, and on the non-technical side, political and social theory, religion, education, war and peace, ethics and morality — scholars need a definitive edition of all of this work. There is already evidence that a substantial reinterpretation of Russell's philosophy might take place when all the materials have been made available."

In 1968, McMaster became custodian of the Bertrand Russell archives, and since then further acquisitions have built up the archives to the point where most of the materials required for the projected edition are in place.

PhD Orals

Since it is sometimes necessary to change the date or time of an oral examination, please confirm the information given in these listings with the PhD oral office, telephone 978-5258.

Monday, June 9

Ellen Shearer, Department of English, "Ovid and Scriblerus: An Exploration of Techniques and Themes from the *Metamorphoses* to Ovid in the Works of Pope, Swift, Gay, Arbuthnot and Parnell." Prof. P. Brückmann. Room 111, 63 St. George St., 2 p.m.

Tuesday, June 10

Thomas Shu-Fong Ying, Department of Pathology, "Studies on Acute Cell Injury, Cell Replication and DNA Repair during the Initiation of Liver Carcinogenesis." Prof. E. Farber. Room 307, 63 St. George St., 2 p.m.

Thursday, June 12

Edward Norman Herberg, Department of Educational Theory, "Ethnicity and Educational Attainment in Four Canadian Cities." Prof. M. Fullan. Room 111, 63 St. George St., 2 p.m.

Friday, June 13

Frank John Kurtz, Department of Political Economy, "The Structure of John Dewey's Political Thought: An Introduction to the Political Character of His Philosophy of Education." Prof. C. Bay. Room 307, 63 St. George St., 2 p.m.

Monday, June 16

Louis Renaud, Department of Physics, "Fourier Multiaperture Emission Tomography." Prof. M. Joy. Room 309, 63 St. George St., 2 p.m.

R.D. Smith, Department of Sociology, "Social Class and Health Behavior." Prof. R. Badgley. Room 111, 63 St. George St., 2 p.m.

Paul R. Thibault, Department of History, "A Life of Pope Gregory XI, 1329-1378." Prof. N.P. Zacour. Room 201, 65 St. George St., 2 p.m.

Wednesday, June 18

Stephen Ituen, Department of Educational Theory, "Societal Needs and Expectations for the Teaching of International Languages: A Case Study of French in Nigeria and English in Ivory Coast." Prof. J. Allen. Room 111, 63 St. George St., 10 a.m.

Thursday, June 19

Ronald B. Aiken, Department of Zoology, "The Role of Acoustic Signalling in the Aggregating and Mating Behaviour of *Palmarixia Nana* Walley (Heteroptera: Corixidae)." Prof. G.K. Morris. Room 309, 63 St. George St., 10 a.m.

Joan Links, Department of Sanskrit & Indian Studies, "Family Kinship and Marriage in Medieval North India with Special Reference to the Kathasaritsagarh, the Seventh Chapter of Kalhana Ragatarangini and Medhatithi Commentary." Prof. N. Wagle. Room 307, 63 St. George St., 2 p.m.

Willem van Vliet, Department of Sociology, "The Impact of the Distribution of Environmental Opportunities and Mothers' Work Status on Child Behaviour and Development." Prof. W. Michelson. Room 111, 63 St. George St., 2 p.m.

Friday, June 20

Hugh Paul Africa, Department of Educational Theory, "Language in Education in a Multilingual State: A Case Study of the Role of English in the Educational System of Zambia." Prof. J. Allen. Room 111, 63 St. George St., 10 a.m.

Stephanie Ann Atkinson, Department of Nutrition & Food Science, "Human Milk Feeding of Premature Infants <1.3 KGM Birthweight: Milk Analysis and Clinical Studies during Early Postnatal Life." Prof. G.H. Anderson. Room 309, 63 St. George St., 10 a.m.

Monday, June 23

Steven A. Rosenzweig, Department of Physiology, "Insulin Biosynthesis in Isolated Fetal Bovine Beta-Cells." Prof. C.C. Yip. Room 309, 63 St. George St., 2 p.m.

Barbara Houldin, Department of Educational Theory, "A Non-Linguistic Test of Abstract Thinking for Deaf and Hearing Children." Prof. P. Gamlin. Room 111, 63 St. George St., 2 p.m. (Please note change: Originally scheduled for June 16, listed in *Bulletin* of May 20.)

Tuesday, June 24

Peter Vadas, Department of Pathology, "The Mediation of Hyperemia in Chronic Inflammation: A Role for Phospholipase A(2)." Prof. J.B. Hay. Room 309, 63 St. George St., 10 a.m.

Peter Wilson Sinclair, Department of Political Economy, "Strategies of Development on an Agricultural Frontier: The Great Clay Belt, 1900-1950." Prof. K. Rea. Room 111, 63 St. George St., 2 p.m.

Wednesday, June 25

John Robert Foster, Department of Zoology, "Factors Influencing the Predator-Prey Relations of a Small Esocid, the Grass Pickerel (*Esox Americanus Vermiculatus*)." Prof. D.W. Dunham. Room 309, 63 St. George St., 10 a.m.

Thursday, June 26

Rena Feigenbaum, Department of History, "Denis Diderot: A Study in Enlightened Anti-Feminism." Prof. J. Dent. Room 111, 63 St. George St., 10 a.m.

Charles Philip Rachlis, Department of Political Economy, "Freedom, Necessity, and Happiness, the Political Thought of Herbert Marcuse." Prof. A. Kontos. Room 111, 63 St. George St., 2 p.m.

Friday, June 27

Peter Ian MacDonald, Department of Educational Theory, "Educational Change in a Peripheral Society: The Example of 19th Century Ontario." Prof. A. Effrat. Room 111, 63 St. George St., 10 a.m.

Monday, June 30

Arpad Farkas, Department of Geology, "The Distribution of Cobalt and Nickel between Pyrite and Pyrrhotite." Prof. S.D. Scott. Room 309, 63 St. George St., 10 a.m.

Committee Highlights

The Campus & Community Affairs Committee, at its meeting May 20

- recommended for approval several motions concerning fees to be collected on behalf of the Graduate Students' Union for the period 1980-81 and concerning refunds for the past collection of unauthorized fees:

- (1) For the period May 1, 1980 to Aug. 31, 1981, the full-time Graduate Students' Union fee be increased by \$1.50 from \$20 to \$21.50 (which includes \$1.50 and \$1 rebated by the Graduate Students' Union to the Ontario Federation of Students and the National Union of Students respectively).

- (2) That students registering in the School of Graduate Studies in the summer session who are assessed compulsory non-academic fees pay a Graduate Students' Union fee of \$10 in the summer of 1980 and a Graduate Students' Union fee equal to one-half the full Graduate Students' Union fee in the summer of 1981, and that all post-program students in the School of Graduate Studies pay a full Graduate Students' Union fee in the winter session 1980-81.

- (3) That an attempt be made to identify: (a) the off-campus post-program students who were assessed a \$20 Graduate Students' Union fee in the winter session 1979-80, and (b) the graduate students who were assessed a \$10 Graduate Students' Union fee during the summer of 1979 and to refund, or apply as a credit to their accounts, the sum of \$10 to each so identified.

- (4) That no formal attempt be made to refund Graduate Students' Union fees which may have been improperly collected prior to 1979-80, but that individual applications therefore will be reviewed and honoured as appropriate

- concurrent with the administration recommendation regarding proposed lounge services for Sidney Smith Hall (see page 1)

The Business Affairs Committee, at its meeting May 21

- recommended that the work and composition of the Investment Review Committee be continued for a further year

- approved in principle as capital projects a number of energy conservation projects in the amount of \$705,000 subject to the President's concurrence with the individual projects listed

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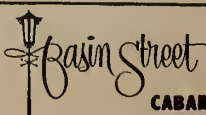
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June 9 - 14

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June 16 - 21

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Ivey research grant in ethnic and immigration studies

The Ethnic and Immigration Studies Program has limited funds available for those conducting research in various disciplines. Any graduate student doing a dissertation or a major research paper at U of T is eligible to apply. The grants are restricted to research directly related to immigration and ethnicity.

To apply for a research grant, submit: (1) a grant application (2) a thesis proposal (3) a letter from a member of the faculty in your department (4) one or two names of other faculty members who could be contacted (5) a statement of expenses you expect to incur while conducting research. Grants do not exceed \$2,000.

Applications will be reviewed by a multi-disciplinary committee, which will make recommendations to the Ethnic and Immigration Studies Program directors. Grants are intended to cover costs associated with research — data collection costs, travel costs, photocopying costs — and are not intended as substitutes for fellowship assistance.

The deadline for applications is March 15 and October 15. Exceptional cases will be considered at other times in the year. For further information and application forms, contact Anne McCarthy, the University of Toronto Ethnic and Immigration Studies Program, 43 Queen's Park Cres. E., room 202 or telephone 979-2973.

CAUT elects new executive

The Canadian Association of University Teachers (CAUT) has elected Israel Unger as its new president, Jim Foulks and Ken McGovern as its two vice-presidents and Louise Forsyth as treasurer for the 1980-81 academic year.

The election took place at the CAUT annual council meeting held in Ottawa in May.

Unger, who is a professor of chemistry at the University of New Brunswick, has been a member of the CAUT board of directors since 1972, serving on the executive since 1977. From 1977 to 1979, he served as chairman of the Relations with Governments Committee. During 1979-80, he served as the vice-president internal for the CAUT, and as such acted as chairman of the Administration Committee.

Foulks, professor of pharmacology at the University of British Columbia, is the CAUT's new vice-president external. His responsibilities will be to handle relations with member associations and to represent the CAUT with affiliated organizations.

McGovern, professor of philosophy at Campion College, University of Regina, is the vice-president internal and will act as chairman of the Administration Committee.

Forsyth is a professor of French at the University of Western Ontario.

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Illustration for The Argument of Book I of *Paradise Lost* from an edition printed in 1688 from the Thomas Fisher Rare Book Library collection. M. Burgesse fecit.

Milton lovers, take note

Anyone with a passion for Milton and a predilection for performing should get in touch with Frances Halpenny. Professor Halpenny, U of T Press, is producing a staged reading of *Paradise Lost* for the Graduate Centre for the Study of Drama, to run in November.

The reading will open in Hart House Theatre on Nov. 19 and play for eight nights. It is an editing of Milton's 12 books to about 1,000 lines of verse, mainly argument between the various characters of the poem, arranged for 12 readers. The characters to be cast include God, Satan, Belial, Beelzebub, Adam, Eve, the archangels Gabriel,

Raphael and Michael, and Milton himself.

Prof. Halpenny is eager to hear from any senior members of the University community who would be interested in taking part in the reading. She's looking for people who would be willing to devote time to mastering variable lengths of his verse and, if possible, voices of Miltonic sonority.

All inquiries should be addressed to Prof. Halpenny, c/o the Graduate Centre for the Study of Drama, Massey College.

Symposium on aging at Erindale

This year the annual Erindale Psychology Symposium will be held on Thursday, Friday, and Saturday, June 12-14 on the topic *Aging and Cognitive Processes*. Gerontology — the study of aging — has received increasing attention over the last few years, and the Erindale symposium will serve as a forum in which some recent research will be reviewed and evaluated. The meeting will focus on the intellectual changes that occur with age, their physiological underpinnings, and their implications for society. The papers will be research oriented, but participants have been encouraged to take a broad view of their topic, so that the papers should also interest a general audience.

The invited participants are coming from various universities and institutes in Canada, Britain, and the US. They are mostly psychologists, but there are also

some researchers from departments of physiology, neurology, pediatrics and gerontology. The meetings will be held in the South Building of Erindale College, starting at 9.30 a.m. (Thursday and Friday) and 10 a.m. (Saturday). There is no registration fee or registration procedure — everyone is welcome to attend the symposium, which is funded jointly by the Program in Gerontology at U of T, Erindale College, and NSERC. Further information may be obtained by phoning 828-5414.

Correction

In a recent article on U of T professors elected to the Royal Society of Canada, we neglected to mention the election of Professor W.R. Bruce of the Department of Medical Biophysics. The *Bulletin* regrets the omission.

Press Notes

Perhaps you know the sort of academic whose mind has never quite descended to the mundane considerations of routine living. He pursues Ideas, pure and untainted; not for him the sordid wrestle with administrative trifles. As for the hodge-podge of letters and forms which irksome booksellers send year after year, asking what texts he will need for courses, he'll not be dragged down by such impertinences — life's too short for that!

As a tribute to such lofty idealists, one American university devised an ingenious plan. Any professor still unable to sully himself with the dreary task of ordering texts by the end of June was given a real bonus; he was told not to soil himself by another impure action — claiming his monthly pay cheque.

But alas, not all booksellers have such an option available; most must rely on less extreme measures to pry lists from the recalcitrant. The process usually begins in early March; order forms are distributed to most departments in the arts and sciences; secretaries are asked to oversee the prompt ordering of texts. From March to September ensues a barrage of letters, explanations, reminders and reprimands. Otherworldly types may look upon these as irritants; the textbook store sees them as part of its duty to ensure that the most important of pedagogical tools will be available in the fall.

The bookseller is caught in a web of treacherous dependency. At one end stands the irate tutor, disinclined to commit himself too early to a list which involves some time and energy to prepare. At the other end stands the publisher, caught in his own mire of printing and distribution problems, often waiting for orders to arrive before beginning the lengthy reprint process. The required text may be out of stock or out of print; the publisher who supplies it is most likely not in Toronto (though on occasion shipments have been rushed by cab from a suburban publisher).

We've all heard about the instructors who didn't order any books, assuming the ones already on the shelf were for them (and thereby robbing their colleagues' students of their justly deserved texts). We've also heard about the chaps who assert vehemently that they sent three lists in — and all were lost in that dashed university mail.

Booksellers seem gentle enough folk, not the sorts you would expect to harbour secret ideas of stern justice and retribution. But my contact at the textbook store did have a certain glint in his eye when he talked of other universities — of knuckle-wrappings by department chairmen and withheld salaries. Just for one month, he muttered, it wouldn't be much.

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Three-time winner of best lecturer award



The Faculty of Medicine's class of 8T1 has announced that Dr. M.B. Urowitz has been chosen by the students to receive the Laurie Chute award for the best clinical lecturer. Dr. Urowitz is the only person to have won the award three times, having been the recipient in 1976 and 1977.

The award was introduced by the class of 5T4 and was originally called the Silver Shovel. In 1973, it was re-instated after a five-year absence and renamed the Laurie Chute award in honour of the outgoing dean, Dr. A.L. Chute.

An associate professor of medicine, Dr. Urowitz is a senior staff physician and consultant to the Rheumatic Disease Unit at Wellesley Hospital. He has been a physician to the Toronto Maple Leaf Hockey Club since 1972 and to the National Hockey League Referees since 1975.

Teaching entrepreneurship

The University has received a \$15,000 grant from the Department of Industry, Trade and Commerce for a planning study of education in innovation and entrepreneurship. Those involved in the study include Professors M.S. Sommers, management studies, G.J. Leonidas, political economy, Andrew Szonyi and M.E. Charles, chemical engineering, D.S. Scott, mechanical engineering, K.C. Smith, electrical engineering, R.M. Soberman, civil engineering and Dean G.R. Slemon, applied science and engineering, *chairman*. The study will focus on planning additional program offerings in innovation and small business management.



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Advertising: Marion de Courcy-Ireland, 978-2106
Marketing & Advertising Sales:
Beverly Garber, 978-2106

Director: Elizabeth Wilson

Material may be reprinted in whole or in part with appropriate credit to the *Bulletin*.

Published every two weeks by the Department of Information Services, 45 Willcocks St., Toronto, Ontario M5S 1C7
Telephone 978-2102

Submissions for publication must be in the *Bulletin* office 10 days before publication date. Display advertising space must be reserved two weeks before publication date.

Searching for an alternative to chemicals to fight tree fungi

by Jacqueline Swartz

One of the most important unanswered questions in forestry is why some trees and not others survive attacks by ever-present fungi. "We don't yet know the biological markers, the compounds inside a tree that make it resistant," says Professor Martin Hubbes, Faculty of Forestry.

Prof. Hubbes is working on a three-year project, "Factors influencing physiological and morphogenetic alterations within trees and their parasites during interaction", funded by the Natural Sciences & Engineering Research Council.

Until about 10 years ago, he says, fungi were destroyed by spraying trees with toxic chemicals. These chemicals are not without side effects, explains Hubbes. "They go into the ground water and are non-specific — they don't kill only the fungi they're supposed to." Hence the emphasis on breeding trees that will be resistant to invading organisms.

This natural solution, however, cannot be reached overnight. "Progress is slow, and we're still using a shotgun approach — we plant trees, observe them and select the fittest."

Hubbes is working on three species of trees: elms, poplars and pines. He has been most successful with pines. In a test comparing 20 kinds of pines, he found that the most resistant contained compounds that are antibiotic. When these compounds were isolated, they were found to occur in wounded or declining trees, never in fresh tissue. The strongest pines, moreover, were found in Korea. Hubbes explains that seedlings from the sturdiest of these individuals can be imported and bred in Canada to create a resistant strain of pines. It's a long-range project, but ultimately inexpensive — seedlings cost less than two cents each.

"We were lucky with pines," says Hubbes. With poplars and elms, tree breeders and pathologists still haven't isolated the compounds and mechanisms that predict resistance. One of the

problems is that while the plant is stable, the pathogen (disease-producing organism) isn't. Instead, it keeps producing new strains to overcome the tree.

Resistance is the norm to a certain degree, says Hubbes, noting that a tree can be called resistant if it stands for 20 to 150 years. "The question is how and how long can it withstand the attack." According to Hubbes, all trees are attacked by fungi. And city trees are also vulnerable to air pollution, which limits their lives to 20 to 30 years.

Because, according to Hubbes, natural forests may not cover our future needs for lumber, he is particularly interested in combating the fungi that appear in plantations. Fresh-cut stumps of plantation red pines, he notes, are especially susceptible to a certain kind of fungus which attacks the stumps, decomposing the centre of the root stem and killing the bark. When this happens, bark beetles are attracted.

In September, Hubbes will attend a symposium in Poland on resistance in poplars. Canada, Hungary and Poland are interested in poplars, he notes, because they grow fast and can help offset the tree shortage in these countries.

At the meeting, sponsored by the Polish Academy of Science, Hubbes will discuss a new approach to tree resistance: identification of fungal strains. "We want to understand why one strain is more virulent than another," he explains. If the "biological markers of aggressiveness" could be isolated, then trees could be inoculated with non-virulent fungi and be able to resist the more virulent strains. And over the long run, it could be possible to decrease the virulence of a parasite by diluting it with a member of the same species.

Hubbes notes that this is the first attempt to deal with tree resistance by working on the parasite rather than the host.

Diabetics could control insulin levels with the help of new artificial pancreas pump



Researcher Michael Sefton must find a way to prevent insulin precipitate from forming on membrane of artificial pancreas.

Diabetics may one day be able to regulate their own insulin levels with just a flick of a switch.

Michael Sefton, a professor in the Department of Chemical Engineering & Applied Chemistry, has developed a tiny artificial pancreas pump designed to imitate the body's own insulin regulating system.

The device, which would be implanted in the abdomen of a diabetic, may solve one of the problems that has plagued artificial pancreas research.

"The problem in the past has been to deliver a small amount of insulin between meals and during the evenings, and then to increase the amount during meals," says Sefton.

He thinks he may have found a key to the problem in a small steel piston that forms the heart of his device.

Sefton hopes medical researchers will eventually be able to use his work to investigate further the connection between high glucose and low insulin levels associated with diabetes and the degenerative complications (like eye, kidney and cardiovascular disease) frequently seen in diabetics taking insulin.

He is attempting to perfect a device for diabetics which will release a small steady quantity of insulin through a membrane into the blood. The system also includes the tiny piston that will "squeeze" the membrane up to 30 times per minute when more insulin is required.

"Since the diabetic knows when he's going to take a meal, he can just flip a switch on the pump to increase the rate," says Sefton.

His research began several years ago after he heard of Professor Michael Albisser's pioneering work on the artificial pancreas in the Department of Electrical Engineering. Prof. Albisser and his colleagues had developed a machine that could analyze and control glucose levels in the blood and then provide the right amount of insulin.

This work offered the possibility of a major improvement in the management of diabetes. Daily injection of insulin will never come close to approximating the precise feedback system of a functioning pancreas that accurately monitors glucose concentration and releases the necessary insulin.

Since then, the challenge facing engineers has been to miniaturize an artificial pancreas for implantation in

diabetics. Tiny devices have been produced that can provide a constant rate of insulin to the patient; but efficient variability has been more difficult to accomplish.

Most researchers have tried to make implants that would, like the larger machine, base insulin delivery on glucose levels. "We have taken a different approach and tried to find out whether we could modify the controlled release delivery of drugs and whether we could then make this variable."

Sefton's device is based on the same technology as the time-released intra-uterine device that slowly releases progesterone and provides birth control for up to two years.

But the major innovation of his system is the addition of a solenoid, a coil of wire which, when the current is turned on, causes the steel piston within it to pressure the membrane like a sponge, causing up to 20 times more insulin to be released.

The main hurdle now facing Sefton is in adjusting the membrane to the proper level of permeability (to allow a steady release of insulin) and elasticity (to allow the piston to extract an accelerated amount of insulin during mealtimes). Experiments to date have failed because after six hours there is an unexplained build-up of insulin precipitate on the membrane, causing it to clog and the insulin to move more slowly through the barrier than it should.

But he is confident that animal trials will begin during the summer to determine whether the device is reliable and a significant improvement over other implants and Sefton can see a time when the small, slender cylinder, complete with refillable drug reservoir and rechargeable power pack, can be implanted in the abdomen.

The ultimate step will be to use it on patients or animals to investigate the relationship between glucose concentration and degenerative disease.

Sefton stresses that an artificial pancreas is neither the best nor the final solution to the problems associated with diabetes: "What's needed is a cure. This is still a relatively crude method of treating people. But it will maintain them. In more general terms, I see it as more of a short-term stop gap."

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Research News

SSHRC Procedural Changes and New Salary and Subsistence Rates

The Social Sciences & Humanities Research Council has recently announced revisions in administrative procedures relating to the research grants program, including:

- (1) Staff will no longer issue requests for additional information from applicants (effective immediately).
- (2) Project descriptions are to be held to a maximum of 15 pages in most cases (effective July 15).
- (3) Applicants will no longer be given the opportunity of responding to assessors' comments before a decision is reached (effective immediately).
- (4) In addition to straight approval or rejection on merit, assessors will now have the formal option of recommending the rejection of an application if they judge that insufficient information has been provided (effective July 15).

The council has also approved new salary rates for research assistants and

graduate and undergraduate student assistants, effective September 1, and a new mileage allowance, effective September 1 (to 17 cents per kilometre).

Copies of information regarding the procedural changes and the new rates are being sent to humanities and social sciences departmental chairmen.

Upcoming Deadlines

SSHRC travel to international scholarly conferences to be held December through March — *July 1*; applicants must be Canadian citizens.

SSHRC travel grants for international representation for conferences to be held December through March — *July 1*; applicants must be Canadian citizens.

Connaught Fund special research program grants — *September 12*. Please note that this is a new program and that the research grants program of the Connaught Fund has been discontinued. Call 978-6475 for further information.

Job Openings

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the Personnel Office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call: (1) Sylvia Holland, 978-6470; (2) Margaret Graham, 978-5468; (3) Manfred Wewers, 978-4834; (4) Ann Sarsfield, 978-2112; (5) Barb Lipton, 978-4518; (6) Clive Pyne, 978-4419.

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two sessional and one part-time (3)

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(\$8,520 — 10,030 — 11,540)
English (1)

Clerk III
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Erindale (4)

Secretary I
(\$9,370 — 11,040 — 12,710)
Music (1), Emmanuel College (6),
Dentistry (1), International Studies (6),
Press (6), St. Michael's College (6)

Secretary II
(\$10,330 — 12,160 — 13,990)
Jewish Studies (1), Medicine, three
positions (4), Health Administration (4),
Dean's Office, Arts & Science (1), Law (1)

Secretary III
(\$11,370 — 13,370 — 15,370)
Policy Analysis (6), Civil Engineering (1),
Library Science (1), Dentistry (1)

Administrative Assistant I
(\$11,370 — 13,370 — 15,370)
Academic Statistics (1), Banting & Best (2)

Laboratory Technician II
(\$12,620 — 14,880 — 17,110)
Medicine (4), Biomedical Engineering,
50 percent (4), Biochemistry (2), Banting
& Best, two positions (2), Obstetrics &
Gynaecology, 80 percent (2), Anatomy
(Histology) (2)

Laboratory Technician III
(\$13,960 — 16,430 — 18,900)
Surgery (4)

Programmer II
(\$15,500 — 18,240 — 20,980)
School of Graduate Studies (6)

Programmer III
(\$19,100 — 22,480 — 25,860)
Business Information Systems (3),
Computing Services (3)

Programmer IV
(\$23,540 — 27,710 — 31,880)
Library Automation Systems (3)

Senior Systems Auditor
(\$23,540 — 27,710 — 31,880)
Internal Audit (2)

Engineering Technologist II
(\$14,760 — 17,370 — 19,980)
Physical Plant (6)

Professional Engineering Officer II
(\$21,200 — 24,980 — 28,680)
Computing Services (3)

Electron Microscopist II
(\$12,650 — 14,880 — 17,110)
Anatomy (2), Metallurgy & Materials
Science (1)

Engineering Technologist III
(\$16,390 — 19,280 — 22,170)
Astronomy (1)

Senior Electrical Draftsman III
(\$16,740 — 19,700 — 22,660)
Physical Plant (6)

More retirees

The following is a list of people who are retiring at the end of this academic year. (Their names were received in the *Bulletin* office too late for inclusion in the listing of this year's retirees published in the May 20 issue of the *Bulletin*.)

N. Bulak, Physical Plant; Jean Christie, Erindale College; J. Dublanski, Physical Plant; N. Evangelista, Physical Plant; R. M. Farrow, Scarborough College; Janet FitzGerald, University College; M. Majchrowski, Physical Plant; E. Mattyasovsky-Major, Academic Statistics; W. Pirotta, Physical Plant; Dr. G.W. Smith, Department of Medicine.

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U of T offers multicultural welcome

The University extends a multicultural welcome this summer when free, daily campus tours begin this month.

Two student guides will conduct tours in English or French, with one having fluency in Ukrainian and Russian. Other languages may be arranged for, if the special request is made in advance and assistance provided to locate an interpreter. Last summer, representatives from 37 countries visited the mid-town campus.

Visitors will walk through shaded cloisters, see the site where Banting and Best discovered insulin, and perhaps glimpse the resident ghost of University College.

Tours begin at Hart House at 10.30 a.m., 12.30 and 2.30 p.m., weekdays except holidays, and there is no charge. In rainy weather, tours of Hart House and restored University College are featured. Lunch or other refreshments are available in the Arbor Room cafeteria.

Student guides Larissa Ramsky of Weston, Ont., and Sharon Beeler of London, Ont., will lead visitors on a "behind the books look" at Canada's largest university.

Campus tours are sponsored by the U of T Alumni Association.

For more information, telephone
978-5000.



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Orchestral training program to continue a second year

The Royal Conservatory of Music has announced that its Orchestral Training Program (OTP), now completing its first year, will be continued next season, thanks to a grant from Employment and Immigration Canada and the Ministry of Colleges and Universities. The program will run from Oct. 13, 1980 to March 20, 1981 for a total of 20 weeks.

The Orchestral Training Program is an intensive course of study for highly qualified young Canadian musicians. Its aim is to improve their orchestral skills so that they can compete more effectively for positions in Canadian orchestras and abroad. During the first season, OTP members presented 12 concerts, attended workshops and master classes, and participated in auditions, under the direction of an international faculty including Andrew Davis (conductor of the Toronto

Symphony), Kazuyoshi Akiyama (conductor of the Vancouver Symphony), and Mario Bernardi (former conductor of the National Arts Centre Orchestra).

Thirty-five musicians will be selected by audition from across Canada to participate in the program. There are openings for all strings, woodwinds, horns, trumpets, and timpani. Tuition expenses, as well as private instrumental lessons, are fully covered by scholarship. A new feature of the 1980-81 program is a living expense allowance for participants, based on financial need.

For further information, interested musicians should write to Jane McDonald, Orchestral Training Program, Royal Conservatory of Music, 273 Bloor St. W., Toronto M5S 1W2, or telephone 978-6257.

First Rosenstadt professorships in health research awarded

The University has announced the first two Bertha Rosenstadt Professorships in Health Research. The 1980-81 awards are in the Faculties of Dentistry and Nursing.

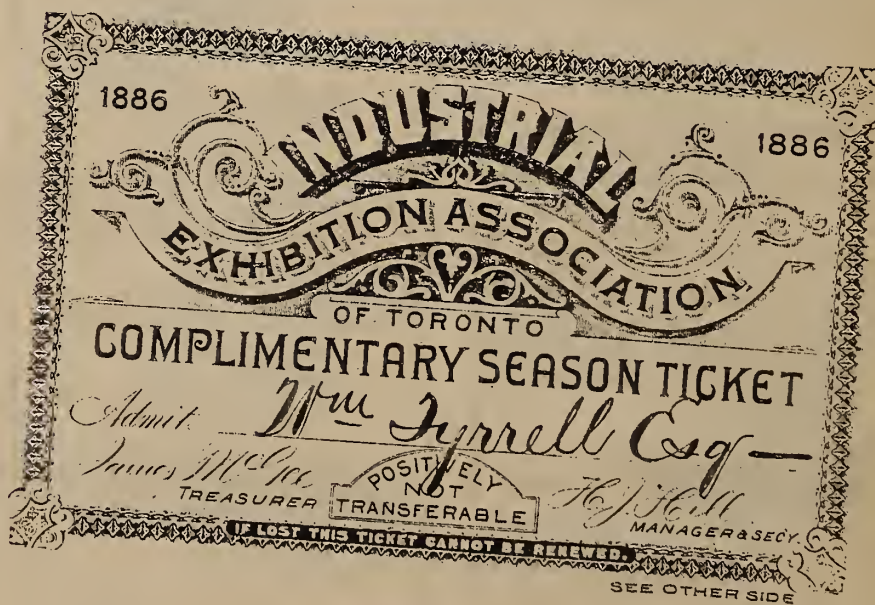
The awards are financed by the \$800,000 Jacob Rosenstadt bequest in honour of his only sister, Bertha Rosenstadt, the first Jewish woman to graduate from U of T. She obtained her BA in 1898 and her MA in 1899.

An award for health research will be made each year and will be circulated among the health science faculties within the University.

Dr. Egil P. Harvold of the University of California, who was responsible for the orthodontic approach in cleft palate therapy, will come to Toronto to do research in the area of bone induction. Dr. Harvold is an internationally recognized leader in the field of environmental effects on orthodontics.

The other award has been presented to Professor Margaret C. Cahoon of the Faculty of Nursing. Prof. Cahoon will help establish a nursing research demonstration project at Sunnybrook Medical Centre.

This, too, had its day



A ticket for an exhibition then has become an exhibit now; one of the many ephemeral items Saved from the Dustbin to be seen at the Thomas Fisher Rare Book Library.

Café en Passant

Select from hot entrées like quiches, bouchée with shrimps, enjoy dinners of Boeuf Bourgignon, Pepper Steak, Creamed Chicken Curry. Our daily selection of desserts like Baba au Rhum, cakes and croissants will delight you.

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Events

Meetings & Conferences

Tuesday, June 10

Presentation of Outstanding Research Accomplishments 1979-80.

Eight papers describing research in the Department of Medicine over the past year will be given beginning at 2 p.m. Each presentation will be 15 minutes. Notices listing papers have been posted on bulletin boards in Faculty of Medicine and at teaching hospitals.

State of the Art Lecture — Recent Advances in the Regulation of Respiration. Dr. E.A. Phillipson, Toronto General Hospital; 4.30 p.m.

State of the Department Address — Dr. C.H. Hollenberg; 5 p.m.

Question Period — 5.15 p.m.

All staff and students in health sciences welcome.

Auditorium, Medical Sciences Building.

2 to 5.30 p.m.

Information, 978-2646.

Thursday, June 12

Aging and Cognitive Processes — The Erindale Symposium, 1980.

Three-day meeting reviewing research and theory on adult changes in intellectual functioning. All sessions will be in the South Building, Erindale College.

Thursday, June 12

Physiological and Clinical Correlates. 9.30 a.m.

Attention and Memory. 2 p.m.

Room 2074.

Friday, June 13

Higher Mental Processes. 9.30 a.m.

Broader Implications. 2 p.m.

Room 2074.

Saturday, June 14

Theoretical Issues. 10 a.m. and 2 p.m.

Council Chamber.

Registration not required. Information, 828-5414.

(Erindale, Gerontology and NSERC)

Friday, June 13

The Neurological Basis of Signs in Communication Processes.

Symposium, June 13 and 14, during International Summer Institute for Semiotic and Structural Studies being held at Victoria College, June 2 to 27.

All symposium sessions will be held in Alumni Hall, Victoria College (Old Vic).

Friday, June 13

Signs and the Brain: Introductory Comments. Prof. Marcel Kinsbourne, Departments of Pediatrics and Psychology; 1.30 p.m.

Language Dispositions in the Infant: Studies in Cerebral Asymmetries. Dr. Jacques Mehler, Centre national de la recherche scientifique, Maison des sciences de l'homme, Paris; 4 p.m.

Simulation of Language Production. Prof. André Roch Lecours, Université de Montréal; 8 p.m.

Saturday, June 14

The Brain Basis of Consciousness and Communication. Prof. Marcel Kinsbourne; 9 a.m.

Two Basic Types of Semiotic Behaviour: Their Dissociation in Aphasia. Prof. Jean-Luc Nespoulous, Université de Toulouse-Le Mirail; 2 p.m.

Distribution and Localization of Function in the Cerebral Cortex: 1980 Model. Prof. Karl Pribram, Stanford University; 7.30 p.m.

Registration fee \$25, students \$10, admission free for those registered in summer institute. Information and registration for symposium, Prof. Paul Bouissac, 305 New Academic Building, Victoria College. General information about summer institute, 978-3870 or 978-3812.

(SGS, Victoria University and Toronto Semiotic Circle)

Monday, June 16

Research '80: Toward Increased Understanding of Recipients of Care and the Agents of the Caring Process.

Faculty of Nursing will present 18 studies recently conducted by faculty members, graduate students and clinical associates. Findings are applicable to clinical practice in hospitals and community agencies. Cody Hall, Faculty of Nursing, 50 St. George St. 9 a.m. to 4.30 p.m.

No registration fee but pre-registration is encouraged and would be appreciated. Information, Dorothy Miles, 978-8559.

Seminar

Thursday, June 12

After the Referendum.

Prof. Abraham Rotstein, Department of Political Economy. 101 Woodsworth College. 5.30 p.m.

(Woodsworth College Students' Association)

Lectures

Wednesday, June 11

The Chronobiology of Sleep-wake Rhythms of Man: Entrained and Non-entrained.

Prof. Elliot D. Weitzman, Albert Einstein College of Medicine; medical grand rounds. Main lecture theatre, Toronto General Hospital. 11 a.m. (Medicine and TGH)

The Problem of Responsibility in the Light of Contemporary Neurology and Psychiatry.

Sir Martin Roth, University of Cambridge. Auditorium, Clarke Institute of Psychiatry. 12 noon. (Psychiatry)

Laboratory Infections and Oncogenic Viruses.

Dr. David Whaley, Ministry of Labour, Toronto. 114 Best Institute. 12.30 p.m. (BBDMR)

Thursday, June 12

Nursing Science: A Foundation for Nursing Practice.

Prof. Marjorie Batey, University of

Washington, Seattle. Cody Hall, Faculty of Nursing, 50 St. George St. 4 p.m.

Ogdensburg 40 Years After: The Canada-United States Defence Relationship.

Barney Danson, former minister of national defence. Ignatieff Theatre, Trinity College, Devonshire Place. 8 p.m. (CIS)

Friday, June 13

Fever and Human Endogenous Pyrogen.


Dr. C.A. Dinarello, Tufts University School of Medicine. Large lecture theatre, Hospital for Sick Children. 12 noon.

Thursday, June 19

Diabetes in the Third World.

Dr. Zdenko Skrabalo, University of Zagreb. 4279 Medical Sciences Building. 4 p.m. (Banting & Best Diabetes Centre)

murphy's pledge^{*1}



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September 5
7:00 p.m.

McMaster Marauders
September 19
7:00 p.m.

Windsor Lancers
October 4
2:00 p.m.

Waterloo Warriors
October 9
7:00 p.m.

York Yeomen
October 24
7:00 p.m.

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Also, check the appropriate box(es) if you wish information on Blues Hockey/Basketball Season Tickets and/or the Athletic Centre/Hart House/Faculty Club Membership Plan.

SEASON TICKET ORDER FORM

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____ Reserved @ \$20/\$15
____ Total Seats Payment

Remember — Blues Discount Prices are valid only until August 1.

Single Game Tickets

Sept. 5	McGill	_____	Box	_____	Reserved
Sept. 19	McMaster	_____	Box	_____	Reserved
Oct. 4	Windsor	_____	Box	_____	Reserved
Oct. 9	Waterloo	_____	Box	_____	Reserved
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Total Seats _____ Payment _____

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B-1

^{*1} This pledge has been duly registered in football heaven (F.B.H.) by R.C. Murphy, head coach of the University of Toronto Varsity Blues Football Team. Anyone doubting the veracity of this statement is invited to check it out with the F.B.H. gate keeper.

^{**2} heck

Events

Miscellany

Monday, June 9

Convocation.

School of Graduate Studies. Prof. D.W. Strangway, Department of Geology, will give Convocation address. Convocation Hall. 2.30 p.m.

Tuesday, June 10

Convocation.

School of Graduate Studies. Clifford C. Pitt, Ontario Institute for Studies in Education, will give Convocation address. Convocation Hall. 2.30 p.m.

Wednesday, June 11

Convocation.

Faculties of Applied Science & Engineering and Forestry. Honorary graduand, Donald A. Chisholm, will give Convocation address. Convocation Hall. 2.30 p.m.

Thursday, June 12

Convocation.

Scarborough College. Prof. S.J. Colman, Scarborough College, will give Convocation address. Convocation Hall. 10.30 a.m.

Convocation.

Faculty of Medicine and School of Physical & Health Education. Honorary graduand, Dr. John R. Evans, will give Convocation address. Convocation Hall. 2.30 p.m.

Friday, June 13

Convocation.

Faculty of Music, Royal Conservatory of Music and Faculty of Education, A-L, and diplomas in child study and technical education. Honorary graduand, Betty Oliphant, National Ballet School, will give Convocation address. Convocation Hall. 10.30 a.m.

Convocation.

School of Architecture, Department of Landscape Architecture and Faculty of Education, M-Z. Prof. R.J. McMaster, Faculty of Education, will give Convocation address. Convocation Hall. 2.30 p.m.

Saturday, June 14

Artfest '80.

Saturday, June 14 and Sunday, June 15, annual exhibition and sale of arts and crafts at Erindale College will feature oil paintings, water-colours, weaving, pottery, ceramics, sculpture, wood and metal crafts. Continuous entertainment and free babysitting. On the campus at Erindale from 10 a.m. to 6 p.m. each day. All proceeds to Erindale scholarship fund and Treatment Centre for Handicapped Children.

Admission \$2, students and senior citizens \$1, children 50 cents, maximum per family \$5. Information, 828-5214.

(Erindale College and Port Credit Rotary Club and City of Mississauga)

Monday, June 16

Convocation.

New College, Woodsworth College and Food Sciences. Honorary graduand, the Hon. T.C. Douglas, will give Convocation address. Convocation Hall. 2.30 p.m.

Tuesday, June 17

Convocation.

University College and Trinity College. Honorary graduand, Lord Ashby of Brandon, will give Convocation address. Convocation Hall. 2.30 p.m.

Wednesday, June 18

Convocation.

Erindale College. Vice-President and Provost D.A. Chant will give Convocation address. Convocation Hall. 10.30 a.m.

Convocation.

Victoria College and bachelors of commerce, excluding those who have opted to graduate with their college group and students from Erindale College. Honorary graduand, Dr. Victor Charles Goldbloom, Canadian Council of Christians and Jews, will give Convocation address. Convocation Hall. 2.30 p.m.

Concerts

Wednesday, June 11

Adrienne Shannon, Piano.

First in series of concerts to be given Tuesdays and Wednesdays to Aug. 5 and 6 in conjunction with summer school of Royal Conservatory of Music; presented in cooperation with CBC. Walter Hall, Edward Johnson Building. 8.15 p.m. Information, 978-3771.

Saturday, June 14

Hart House Chorus.

Chorus will take part in sing-a-thon at Eaton Centre, proceeds towards costs of attending 1980 International Festival of Youth Orchestras and the Performing Arts in Aberdeen where chorus has been invited to perform. Information, 978-5361.

Please note: Donations for which income tax receipts will be issued may be made. Information re donations from Hart House accounting office, 978-2439.

Tuesday, June 17

Sandra Pohran, Oboe; Gerald Robinson, Bassoon; Adrienne Shannon, Piano.

Second in series of Conservatory summer school concerts, presented in cooperation with CBC. Walter Hall, Edward Johnson Building. 5.15 p.m. Information, 978-3771.

Wednesday, June 18

Trio da Capo.

Andrew Markow, piano; Terry Holowach, violin; Edward Hayes, cello. Third in series of Conservatory summer school concerts, presented in cooperation with CBC. Walter Hall, Edward Johnson Building. 8.15 p.m. Information, 978-3771.

Saturday, June 21

Hart House Chorus.

Chorus will take part in a sing-a-thon at Village-by-the-Grange, proceeds towards costs of attending International Festival of Youth Orchestras and the Performing Arts in Aberdeen. Information, 978-5361. Donations may be made; details June 14 listing.

Tuesday, June 24

Donald Wilson and Peter McAllister, Guitar Duo.

Fourth in series of Conservatory summer school concerts, presented in cooperation with CBC. Great Hall, Hart House. 5.15 p.m. Information, 978-3771.

Friday, June 20

Convocation.

St. Michael's College, Innis College and Faculty of Law. Honorary graduand, Mr. Justice James A. Jerome, will give Convocation address. Convocation Hall. 2.30 p.m.

Exhibition

Wednesday, June 11

Saved from the Dust-Bin.

Canadian ephemeral material; 1980 has been designated World Ephemera Year. Thomas Fisher Rare Book Library to mid-August.

Wednesday, June 25

Chamber Music Institute.

Group from Kingston will give fifth in series of Conservatory summer school concerts, presented in cooperation with CBC. Great Hall, Hart House. 8.15 p.m. Information, 978-3771.

Governing Council & Committees

Monday, June 9

Planning & Resources Committee.

Council Chamber, Simcoe Hall. 4 p.m.

Thursday, June 12

Academic Affairs Committee.

Council Chamber, Simcoe Hall. 4 p.m.

Tuesday, June 17

Committee on Campus & Community Affairs.

Council Chamber, Simcoe Hall. 4 p.m.

Wednesday, June 18

Business Affairs Committee.

Board Room, Simcoe Hall. 4 p.m.

Thursday, June 19

Governing Council.

Council Chamber, Simcoe Hall. 4.30 p.m.

Play

Monday, June 23

Elizabeth I.

By Paul Foster, directed by Eric Steiner, produced by the Young Company. Previewing June 23 and 24, opening June 25, playing Monday to Saturday to July 12. Glen Morris Studio Theatre. All performances at 8 p.m. Tickets \$3, previews pay-what-you-can. Information and reservations, 978-8705. (Drama Centre and Student Youth Employment Program, Theatre Ontario, Experience 80 and Ontario Youth Theatre)

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The Canadian Committee of Scientists and Scholars

by Eric Fawcett

On Jan. 22, 1980, Andrei Sakharov, Nobel peace prize recipient, outstanding scientist and world-renowned leader of human rights, was arrested and exiled to Gorky by the Soviet authorities. Since then he has been repeatedly harassed and even physically assaulted by the police, and his wife reports that he is in poor health.

On Jan. 26, 1980, a number of distinguished Canadian scientists and scholars sent telegrams to President Brezhnev of the USSR protesting the persecution of Andrei Sakharov and to the Canadian Minister for External Affairs recommending suspension of Canada-USSR scientific exchange programs. On March 5, 1980, a telegram was sent to Andrei Sakharov expressing the support of 514 Canadians, mostly university professors, who had signed a petition on his behalf.

The Canadian Committee of Scientists and Scholars (CCSS) grew out of the massive support for the petition associated with these telegrams. CCSS has the following simple charter:

Purpose: To provide a means for scientists and scholars to speak out collectively on behalf of colleagues who are subject to persecution.

Procedure: A small working group will be directed in matters of policy by a council of leading scientists and scholars, and from time to time will act on specific cases of persecution. Canadian scientists and scholars will be invited to join together in support of those actions.

I was asked to be chairman of CCSS, whose council now includes: Pierre Berton (author) OC; Donald Chant (zoologist) FRSC; Donald Coxeter (mathematician) FRSC; Robertson Davies (author) CC FRSC; Northrop Frye (professor of literature) CC FRSC; Richard Gathercole (professor of law); Kelly Gotlieb (computer scientist) FRSC; Gerhard Herzberg (physicist) NL CC FRSC; Mavor Moore (professor of drama); José Nun (political scientist); John Polanyi (chemist) CC FRSC; Louis Siminovitch (medical scientist) OC FRSC; Gordon Skilling (political scientist) FRSC; Harold Town (artist) OC ARCA; Lynne Trainor (physicist); and Harry Welsh (physicist) OC FRSC.

CCSS is now engaged in a campaign on behalf of three scientists, José Luis Massera, Yuri Orlov and Anatoly Shcharansky, each of whom has been adopted by Amnesty International as a Prisoner of Conscience. Their cases, described in the May 1980 issue of the



Canadian Association of University Teachers *Bulletin*, are briefly summarized:

José Luis Massera — leading mathematician of Uruguay, member of former Uruguay parliament, imprisoned without trial after savage beating in October 1975. Mathematicians in Canada, France, Mexico and many other countries have protested, resulting in some improvement in his treatment, but not so far release from prison.

Yuri Orlov — internationally recognized Soviet physicist, sentenced in May 1978 to seven years hard labour for his activities in the Helsinki Group. Norman F. Ramsey, then president of the American Physical Society, stated, "I regard both the nature of the trial and the severity of the sentence as serious affronts to scientific progress and cooperation".

Anatoly Shcharansky — young computer scientist, imprisoned in May 1977 and sentenced in July 1978 to 10 years hard labour and three years prison for high treason, with apparently little respect at the trial for the rules of evidence. In December 1977 the Canadian Secretary of State for External Affairs offered to accept Shcharansky in Canada (where he has many relatives). The offer has been reiterated, but with no response.

How I became active

Perhaps I might explain how I came to be active in these problems. I am an experimental physicist, deeply absorbed in research and teaching. Like most of my colleagues, I am reluctant to take time away from my professional work. I have asked several, who are dedicated scientists and even more active than I in defence of their persecuted fellow scientists, how they found motivation and

time for these activities. In each case, I found that the commitment to human rights activities began through personal contact with some victim of persecution.

My own awakening to these problems began on a Sunday afternoon in July 1976 when I was attending the seminar conducted by the physicist Mark Azbel in his apartment in a Moscow suburb. It was an illegal seminar. The participants were Soviet scientists who had been dismissed from their jobs after applying for an exit visa. As a consequence, they had been cut off from normal scientific work.

After this, I could no longer be unaware of the terrible problems that beset some of my colleagues under oppressive regimes. I came to know that these problems sometimes include imprisonment and even torture and murder.

Mark Azbel is a scientist whose work is known in every university physics department. At one time, he worked at Peter Kapitza's Institute for Physical Problems in Moscow. After his dismissal following his application for an exit visa, he was a thorn in the flesh of authorities for five years until in 1978 he was allowed to leave the Soviet Union. He is now once again a productive scientist at the University of Tel Aviv.

The Moscow seminar continues to meet every Sunday, but now under the leadership of Viktor Brailovsky (a cyberneticist). He and his wife Irina (a physicist) were dismissed from their jobs eight years ago when they applied for exit visas and for all that time have been struggling to survive.

Interestingly enough, some of the people most active on behalf of scientists oppressed in some country, at the same time cooperate with the official scientific establishment in that country. The explanation is that, when a scientist makes an official visit to another country, he sometimes becomes aware

of the persecution of his colleagues and becomes active in their defence.

On the other hand the widespread support recently expressed for Andrei Sakharov came from hundreds of Canadian scientists and scholars, most of whom had never been in the Soviet Union. I think the explanation is not only that Andrei Sakharov is a famous scientist, but that he is also world-renowned for his activities in the cause of peace, and that he is an outspoken critic of oppression in the Soviet Union. Many Canadians feel compassion for the anonymous victims of oppression, and by supporting the petition on behalf of Andrei Sakharov hoped to help them also.

Soviets singled out

Why is the Soviet Union so often singled out for condemnation by scientists when many other nations violate human rights on a large scale? One reason is that in, for example, the continuing forced exodus from Vietnam of the boat people, or the repressions and indignities imposed by apartheid in South Africa, the persecuted are in only very few cases identifiable scientists. Actually, insofar as treatment of scientists, scholars and other intellectuals is concerned, the most vicious offences have been perpetrated by Argentina where many have disappeared without trace — and protests or threats of scientific boycott are of little avail since they are usually too late to save the victim's life, let alone his scientific career. Thus in the Soviet Union it is possible to identify the individual victims of persecution, and there is some possibility of improving his condition through our protests.

It is important to realize that the Soviet Union can be influenced by public opinion of the rest of the world. In particular the Soviet authorities wish to maintain good relations with our scientists. On the one hand the Soviet Union needs our more advanced applied science and technology (as well as our grain) and on the other the esteem of our scientists and scholars (as well as of our Olympic athletes) for Soviet institutions is highly valued.

This goes a long way towards explaining the relative invulnerability of the Soviet participants at the Moscow seminar from more severe forms of punishment than deprivation of employment. The attendance of foreign scientists at the seminar is generally considered to protect the Soviet participants, since it indicates that although without a job they are still recognized as scientists, on whose behalf petitions can be raised from the international scientific community in response to more severe punishment.

There is another important reason for maintaining interaction between the persecuted scientist and his foreign colleagues. He needs to know that he is not forgotten. He is usually unemployed and isolated from his colleagues in his own country, if not imprisoned.

As well as participating collectively in CCSS in support of human rights, Canadian scientists and scholars should whenever possible make an individual effort to help a persecuted scientist in their own field — by writing to him to express personal concern for his welfare and that of his family, by sending him reprints of publications, by arranging for him to be invited to participate in international conferences, etc. Such action will keep alive his hope of regaining his freedom and once again becoming a working scholar.

I have been asked, why recommend restricting the channels of scientific

Continued on page 16

communication, for example by suspending (if only temporarily) a scientific exchange program in response to an act of oppression, in the name of trying to maintain and extend them. I believe the answer is that it's simply not feasible to maintain a meaningful scientific interaction with a country whose scientific community is severely restricted in freedom; or which permits the persecution of some of its scientists for daring to be as forthcoming in other aspects of their lives as they must be in their professional lives.

In the words of Lord Todd, president of the Royal Society (at the February 1980 Scientific Forum in Hamburg): "The harsh and inhuman treatment meted out by the Soviet authorities to some of their scientists for what, even if established by fair and open trial, would be regarded by all of us in the West as comparatively minor disagreement with authority, is rapidly destroying the possibilities of real cooperation in science".

I urge Canadian scientists to participate

The other question I ask myself is, why show such concern for a small number of persecuted scientists, when the threat of war between the superpowers looms over us with the likely engulfment of whole populations in the holocaust, victims of nuclear, chemical and biological weapons.

The answer I believe is the same, but now extended to the interaction between whole peoples. Such interaction must eventually be widespread if we are to continue to avoid massive war. But it will only be possible when our social and political structures permit free interaction between peoples. Thus I regard human rights activities as a vital positive contribution to that most awful of human problems, conflict between nations.

I urge Canadian scientists and scholars to participate in the activities of CCSS, not only for the good they may achieve in

the rest of the world, but for the benefit to Canadian society. In particular the academic and intellectual community in Canada as in other countries is too often inclined to debate public issues rather than to take action upon them, failing to realize that action is a form of research leading to understanding — as the experimental scientist well knows in his professional work.

Apart from understanding, the moral value of such action is incalculable. We must, as a community of scholars whose creed includes the right to intellectual as well as physical freedom, take action on behalf of those who are persecuted for attempting to assert this right. We must help brave men struggling for freedom to put on record, as a reminder to ourselves and to future generations, the fact that, no matter how overwhelming the odds against them such men will not be cowed into silence. In the words of Socrates, who was put to death for teaching what he believed to be true: "There are ways of escaping if a man is willing to say and do anything; the difficulty, my friends, is not in avoiding death but in avoiding unrighteousness, for that runs faster than death".

Eric Fawcett is a professor in the Department of Physics.

Books needed

The Friends of the Library, Trinity College, are planning their fifth annual book sale to be held Oct. 23-24 in Seeley Hall.

All kinds of books — paperbacks or hardcovers, new or old, fiction or non-fiction — are needed for the sale and any donations are welcome.

Storage space is available now, so if you have any books to give away please contact the Trinity Convocation office (978-2651) or Helen Bradfield (489-1959). Pickups can be arranged.

All proceeds will be given to the Trinity Library.

Alberta human rights ruling could jeopardize native programs

Due to a ruling of the Alberta Human Rights Commission, the University of Calgary has cancelled a special business program for native people that was offered on the Hobbema Indian Reserve, according to the Association of Universities and Colleges of Canada (AUCC). AUCC reports that Marlene Bloedel, a non-native, applied for admission to the program and was refused despite having equal or higher qualifications than many of the students accepted. Native students enrolled in the program were

subsidized by the federal Department of Indian Affairs and Northern Development, but no funding was available for non-natives. Bloedel complained to the Alberta Human Rights Commission that she had been refused admission to the program because she was a non-native. The commission ruled in her favour. An Edmonton labour lawyer says the ruling could jeopardize all affirmative action education and employment programs for native people.

Classified

A classified ad costs \$5 for up to 35 words and \$.25 for each additional word. Your name counts as one word as does your phone number, but the components of your address will each be counted as a word.

A cheque or money order payable to University of Toronto must accompany your ad.

Ads must be submitted in writing, 10 days before *Bulletin* publication date, to Marion de Courcy-Ireland, Information Services, 45 Willcocks St. Ads will not be accepted over the phone.

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Must sell — leaving country. Washer/spin dryer, Westinghouse, apt., size 30 by 18 by 29, \$150; telephone 978-3240 or 769-3569 after 7 p.m.

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Editorial assistant to handle office for leading academic journal. Must type, read, write, walk and file. Knowledge of French preferred. Ten hours weekly, three afternoons. Reply in writing, including telephone number, to Jack Chambers, Department of Linguistics.

For rent: July and August, 1980, available until December 31, 1981. Furnished apartment (one bedroom, study, balcony, garage) beside Oriole Park. Five minutes from subway, ten from Yonge-St. Clair shopping. \$475.00 monthly plus utilities. Phone 978-7173 or 486-1100.

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Halifax house for rent: June 28 - Aug. 30/80. Central, near park, bus, within walking distance from university and downtown. 4 bedrooms, 2 studies, dishwasher, washer/dryer, small garden, garage. \$380 per month. Phone in Toronto: 923-5857 (evenings).

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Furnished country home for rent. "Fiddlers Hill", completely restored classic stone house, 2200 sq. ft., log burning fireplaces, all modern conveniences, barns, pond, 56 scenic acres. Unequalled atmosphere. Easy access to 401 and Georgetown GO-Trains. \$1,000 per month. 2 yr lease (min.) Call owner W. Sonnenberg. 248-3571; (519) 833-9852.

For rent: small furnished two bedroom house. Available any time up to end August 1980 for two year term minimum. Five appliances. Renovated. Parking. Bookshelves. 10 minutes' walk to subway or Bloor Street. \$600. Call McErlean, 667-3674, 248-3040.

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